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APPLICATION NO.		FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/608,906	6 06/27/2003		Sohel Anwar	46107-0037	. 8032	
		7590	04/12/2006	EXAMINER			
	Douglas A. N Dickson Wrigh			SICONOLFI, ROBERT			
	Suite 800	IN I LLC		ART UNIT	PAPER NUMBER		
	1901 L. Street			3683			
	Washington, DC 20036				DATE MAILED: 04/12/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)						
Office Action Commence			10/608,906	3	ANWAR, SOHEL					
	Office Action Summary	Examiner		Art Unit						
			Robert A. S		3683					
Period fo	The MAILING DATE of this commun r Reply	ication app	ears on the	cover sheet with the	correspondence ac	idress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)□	Responsive to communication(s) file	ed on								
,		· ·	action is no	n-final.						
•										
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.										
Dispositi	on of Claims									
4)⊠	Claim(s) 1-23 is/are pending in the a	application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5)🖂	☑ Claim(s) <u>6-10,19 and 20</u> is/are allowed.									
6)⊠	☑ Claim(s) <u>1-5,11-18 and 21-23</u> is/are rejected.									
7)	Claim(s) is/are objected to.									
8)□	Claim(s) are subject to restrict	tion and/or	election re	quirement.						
Applicati	on Papers									
9)[The specification is objected to by the	e Examiner	r.							
10)[) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.									
	Applicant may not request that any object	ction to the c	drawing(s) be	held in abeyance. Se	ee 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)[The oath or declaration is objected to	by the Exa	aminer. Not	e the attached Office	e Action or form P1	ГО-152.				
Priority u	nder 35 U.S.C. § 119									
•	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.									
	2. Certified copies of the priority documents have been received in Application No									
	3. Copies of the certified copies of the priority documents have been received in this National Stage									
* 0	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
	ee the attached detailed Office actio	ii ioi a list (or the certifi	su copies not receive	eu.					
Attachment	(e)									
1) Notic	e of References Cited (PTO-892)			4) 🔲 Interview Summary						
	e of Draftsperson's Patent Drawing Review (P			Paper No(s)/Mail D Notice of Informal I		O-152)				
	nation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date	PTO/SB/08)		6) Other:	асент Аррисацон (РТС	J-194J				

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DETAILED ACTION

1. Amendment filed on 2/2/06 has been received.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1,2,13,14,21,22 are rejected under 35 U.S.C. 102(b) as being anticipated by Furukawa et al (U. S. Patent no. 6,334,656).

See entire document. Furukawa et al discloses a vehicle stability/yaw control system that using a sliding mode model. See equation 8. Furukawa et al calculates a desired yaw and applies a controlled yaw moment to achieve this based on a feedback setup (see abstract, claim 1, figures 4 and 5).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furukawa.

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Furukawa et al is relied upon as above in paragraph 3. Furukawa et al does not disclose the exact equation claimed. Furukawa discloses a similar equation. The equation claimed is derived from the sliding mode control law which is a known concept. It would have been obvious to one of ordinary skill in the art at the time the invention was made to derive a specific equation from the sliding mode control as such is merely a design choice on the variables one desires to use.

- 6. Claims 4,5,11,12,15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furukawa et al in view of Park et al (U. S. Patent no. 6,286,637). Furukawa et al is relied upon as above in paragraph 3. Furukawa et al does not disclose the use of eddy current brakes with the yaw control system. Park et al teaches an eddy current brake that is designed to be used with a brake system using the sliding mode control model (see column 4 lines 55-56). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the eddy current brake as taught by Park in the system of Furukawa et al in order to have a supplemental brake that does not wear out over time.
- 7. Claims 6-10 and 19, 20 are allowed.

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Response to Arguments

8. Applicant's arguments filed 2/2/06 have been fully considered but they are not persuasive. Applicants argue that Furukawa does not disclose a yaw rate but rather a body slip angle and notes figure 1 step 4. It appears that applicants are arguing the wrong prior art reference since figure 1 is a schematic drawing of a car and has no steps. Applicants appear to be arguing U. S. Patent no. 6,233,513. The rejection relies upon 6,334,656 (as noted by applicant in the remarks section of the response).

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Siconolfi whose telephone number is 571-272-7124. The examiner can normally be reached on M-F 10 am-3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan can be reached on 571 272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert A. Siconolfi

Primary Examiner Art Unit 3683